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DATE MAILED: 02/14/2006

				GOVERN A TOWN
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,701	09/24/2003	Xing Su	INTEL1230 (P15616)	8780
7:	590 02/14/2006	EXAMINER		
LISA A. HAI	LE, Ph.D.	FREDMAN, JEFFREY NORMAN		
ATTORNEY F	OR INTEL CORPORA	ATION		
GRAY CARY	WARE & FREIDENR	ART UNIT	PAPER NUMBER	
4365 Executive	Drive, Suite 1100	1637		
Con Diago CA	02121 2122			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	pplication No. Applicant(s)						
Office Action Summary		10/670,70	1	SU ET AL.					
			Examiner		Art Unit				
			Jeffrey Fre	dman	1637				
The MAI Period for Reply	LING DATE of this commun	nication appe	ears on the	cover sheet with the o	correspondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)☐ Responsi	ve to communication(s) file	ed on							
· · · · · · · · · · · · · · · · · · ·	This action is FINAL . 2b)⊠ This action is non-final.								
3)☐ Since this	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Cla	ims								
4) Claim(s)	4) Claim(s) <u>1-34</u> is/are pending in the application.								
4a) Of the	4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s)	5) Claim(s) is/are allowed.								
6) Claim(s)	6) Claim(s) is/are rejected.								
7) Claim(s)	is/are objected to.								
8) Claim(s)	<u>1-34</u> are subject to restricti	on and/or e	lection req	uirement.					
Application Paper	s								
9)☐ The speci	fication is objected to by th	e Examiner	•.						
10)∏ The drawi	ng(s) filed on is/are	: a) <u>□</u> acce	pted or b)[\square objected to by the I	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 l	J.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s) 1) Notice of Referen		PTO-048\		Interview Summary Paper No(s)/Mail Da					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 				5) Notice of Informal P 6) Other:		D-152)			

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-26, drawn to methods of making and detecting molecular barcodes, classified in class 435, subclass 4.
 - II. Claims 27-30, drawn to polymeric labels, classified in class 536, subclass22.1.
 - III. Claims 31-34, drawn to systems of barcode detection, classified in class435, subclass 287.2.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions in Group I and in Groups II and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product and system can be used in the detection method of Group I or in DNA sequencing methods or in PCR amplification methods or in sandwich hybridization methods or in explosive detection methods.
- 3. Inventions in Group II and in Group III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention in Group

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If has separate utility such as use in assays which do not require imaging such as ETM devices which use electrodes for detection. See MPEP § 806.05(d).

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper. Also, the search required for each Group would be distinct, since each Group has different structural elements and would require the use of different search terms and each Group falls in different art areas ranging from hybridization methods and immunoassay methods to fluorescent imaging devices and specific molecules. There is a significant likelihood that different art would be applicable to the different Groups and in view of the distinct and burdensome searches required to separately analyze the patentability of each Group with respect to prior art and 112 issues, restriction for examination purposes is proper.
- 5. This application contains claims directed to the following patentably distinct species of the claimed invention:
 - i) nucleic acids, nucleotides, nucleotide analogs, base analogs,
 - ii) fluorescent dyes
 - iii) peptides, amino acids, modified amino acids,
 - iv) organic moieties,
 - v) Raman tags,
 - vi) quantum dots,
 - vii) carbon nanotubes,
 - viii) fullerenes,

ix) submicrometer metal pmicles,

- x) electron dense particles
- xi) crystalline particles

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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6. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain

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dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey Fredman whose telephone number is (571)272-0742. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (571)272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey Fredman Primary Examiner Art Unit 1637

2/10/06